

1 SIGNAL SOURCE

FREQUENCY CONVERSION DEVICE 1

7 FREQUENCY CONVERSION DEVICE 2

(A) SIGNAL INTENSITY

(B) FREQUENCY

(C) SIGNAL INTENSITY

(D) FREQUENCY

(E) SIGNAL INTENSITY

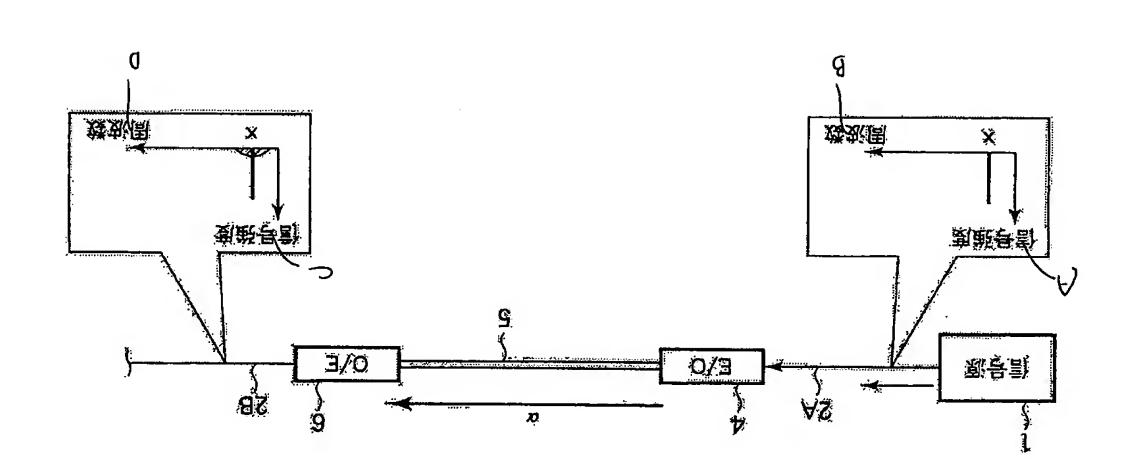
(F) FREQUENCY

(G) SIGNAL INTENSITY

FREQUENCY

(H)

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(A) SIGNAL INTENSITY

SIGNAL SOURCE

(B) FREQUENCY (C) SIGNAL INTENSITY

(C) SIGNAL INTEN (D) FREQUENCY

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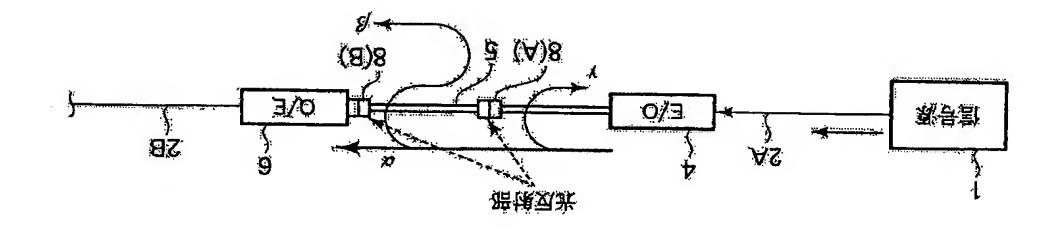
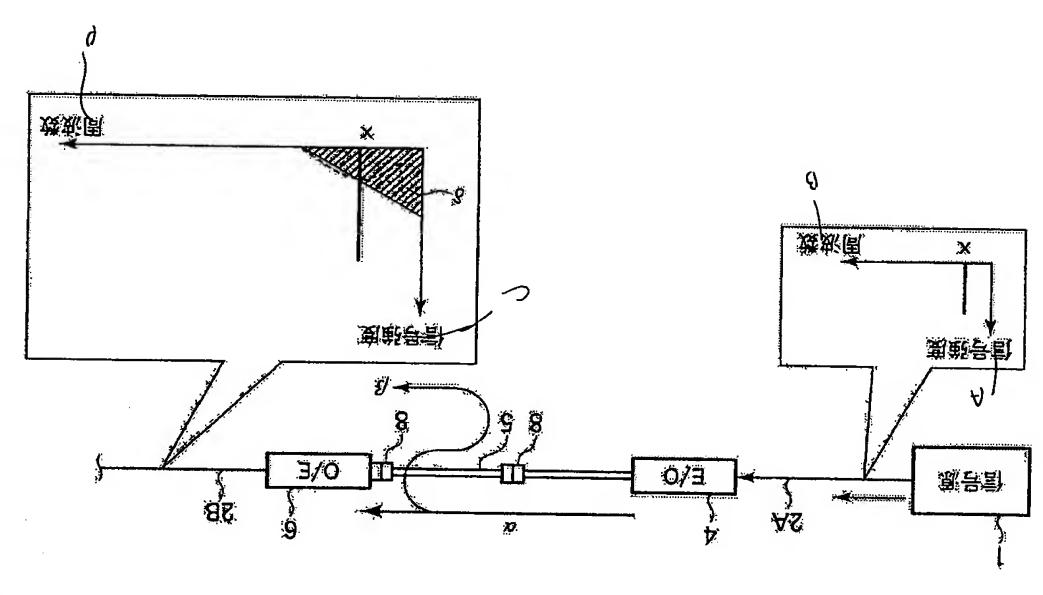


FIG. 3

SIGNAL SOURCE

8 OPTICAL REFLECTION PORTION





SIGNAL SOURCE

SIGNAL INTENSITY 3

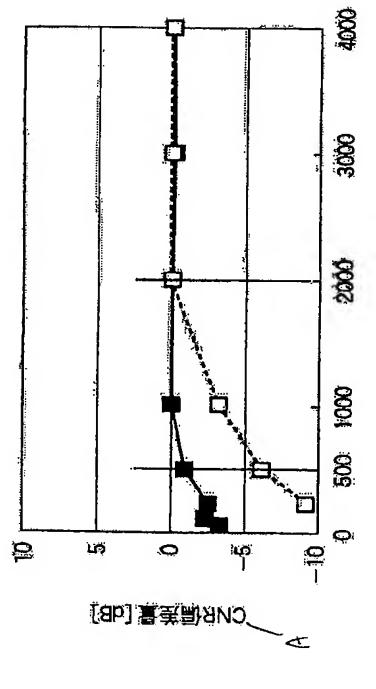
FREQUENCY

SIGNAL INTENSITY (B) (C) (Q)

FREQUENCY



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CNR DEVIATION [dB]

 \mathfrak{F}

FIG. 5

FREQUENCY [MHz]

(B)

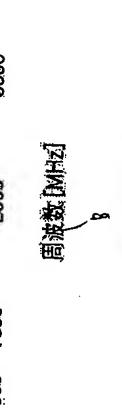
FIG. 6

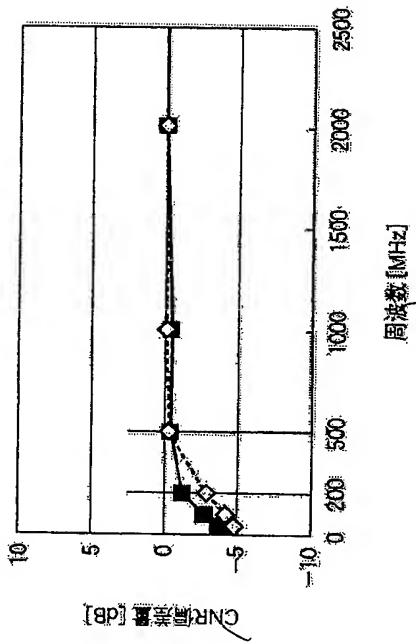
CNR DEVIATION [dB]

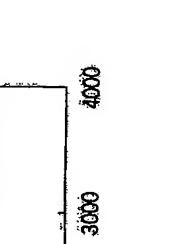
€

FREQUENCY [MHz]

(B)

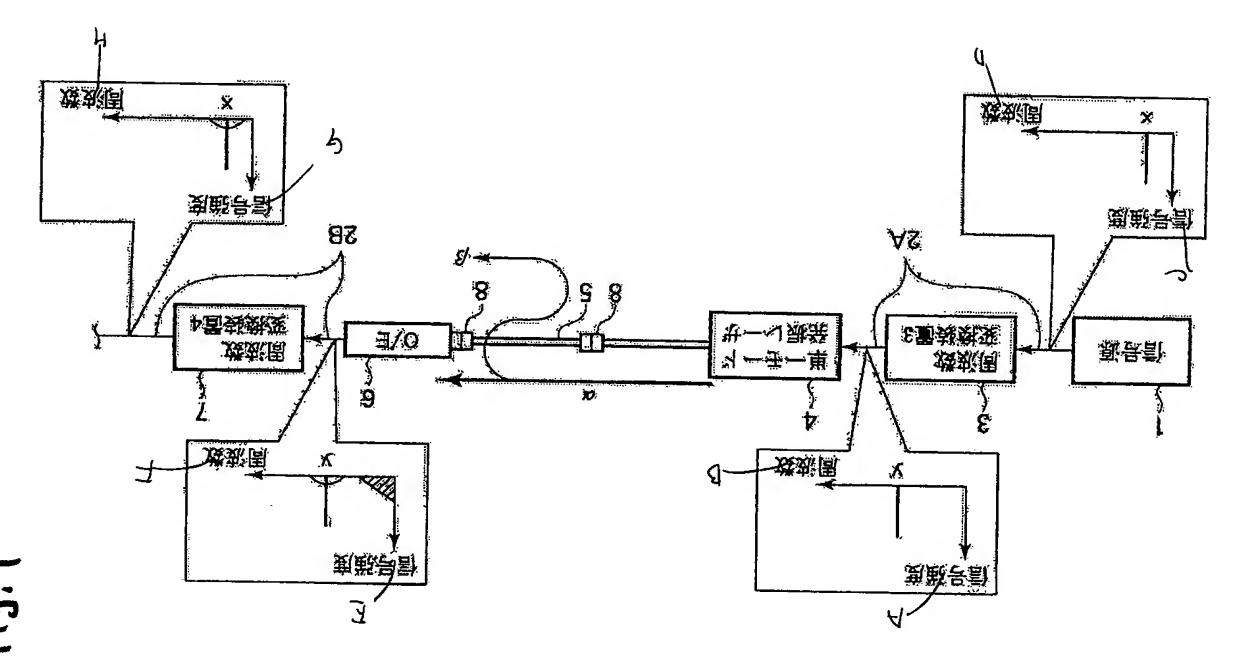












1 SIGNAL SOURCE

FREQUENCY CONVERSION DEVICE 3

SINGLE-MODE OSCILLATION LASER

FREQUENCY CONVERSION DEVICE 4

(A) SIGNAL INTENSITY

(B) FREQUENCY

SIGNAL INTENSITY

<u>O</u>

(D) FREQUENCY

(E) SIGNAL INTENSITY

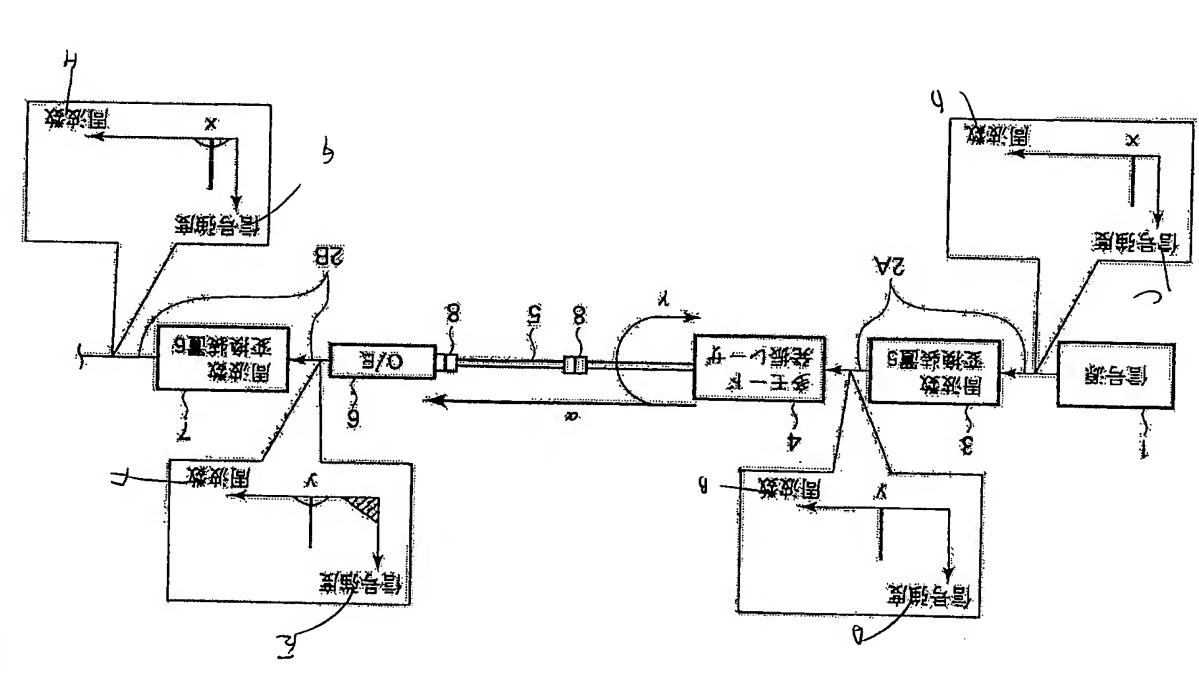
(F) FREQUENCY

(G) SIGNAL INTENSITY

FREQUENCY

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SIGNAL SOURCE

FREQUENCY CONVERSION DEVICE 5

MULTI-MODE OSCILLATION LASER

FREQUENCY CONVERSION DEVICE 6

SIGNAL INTENSITY 3

FREQUENCY (B) SIGNAL INTENSITY

<u>O</u>

FREQUENCY <u>O</u> SIGNAL INTENSITY

(E)

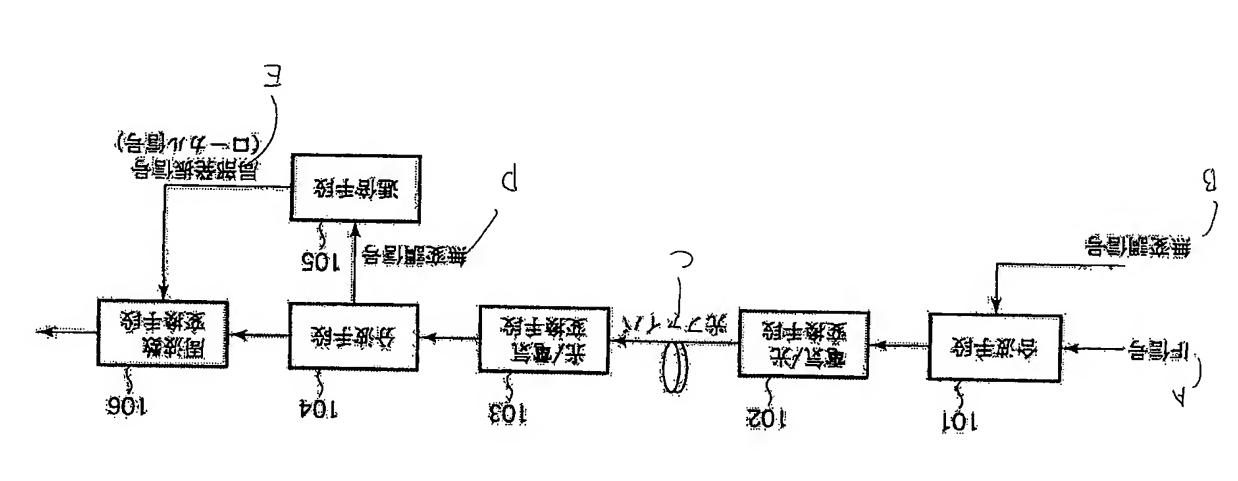
FREQUENCY

(F)

SIGNAL INTENSITY <u>(G</u>

FREQUENCY $\widehat{\Xi}$

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MULTIPLEXER UNIT 101

FIG. 9

ELECTRO-OPTIC CONVERSION UNIT 102

OPTO-ELECTRIC CONVERSION UNIT 103

SPLITTER UNIT 104

MULTIPLIER UNIT 105

FREQUENCY CONVERSION UNIT 106

IF SIGNAL \mathfrak{F} NON-MODULATED SIGNAL (B)

(C)

OPTICAL FIBER

NON-MODULATED SIGNAL (D) LOCAL OSCILLATION SIGNAL (LOCAL SIGNAL)

(E)